

FIGURE 1

Figure 1: pMS Phage Display Vector. Pro = Lac Z promoter. L1 = Omp A leader. L2 = Pel B leader. Light = light chain . Heavy = heavy chain.

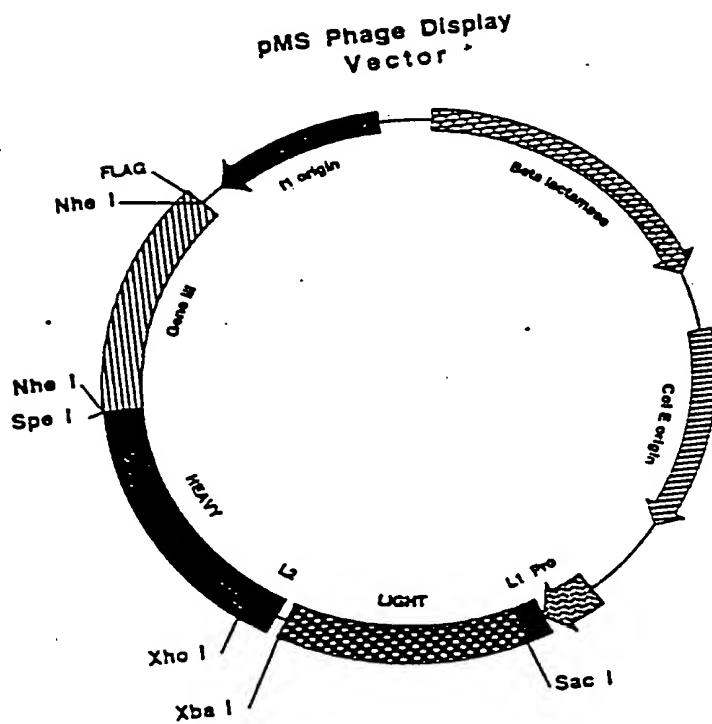
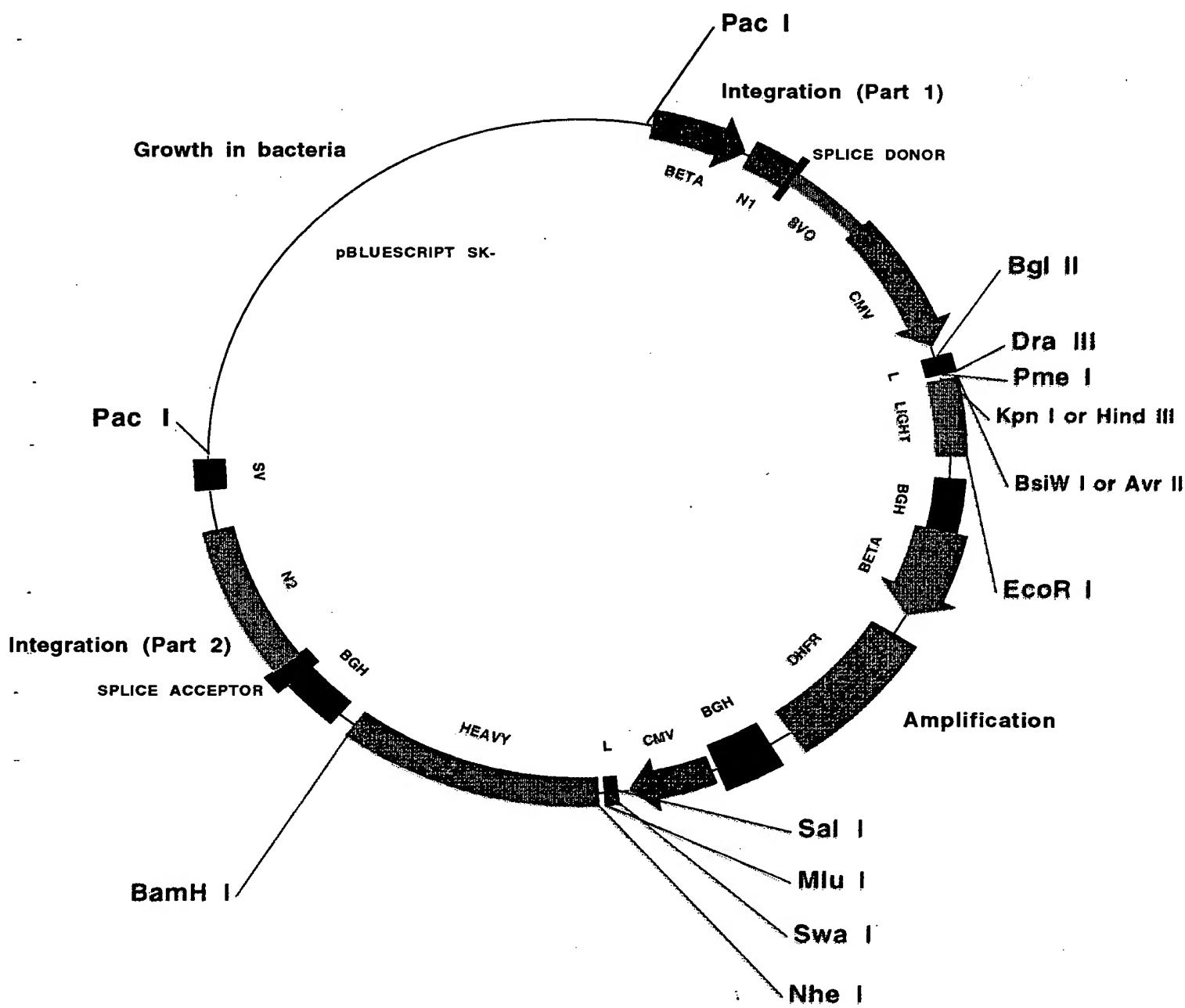


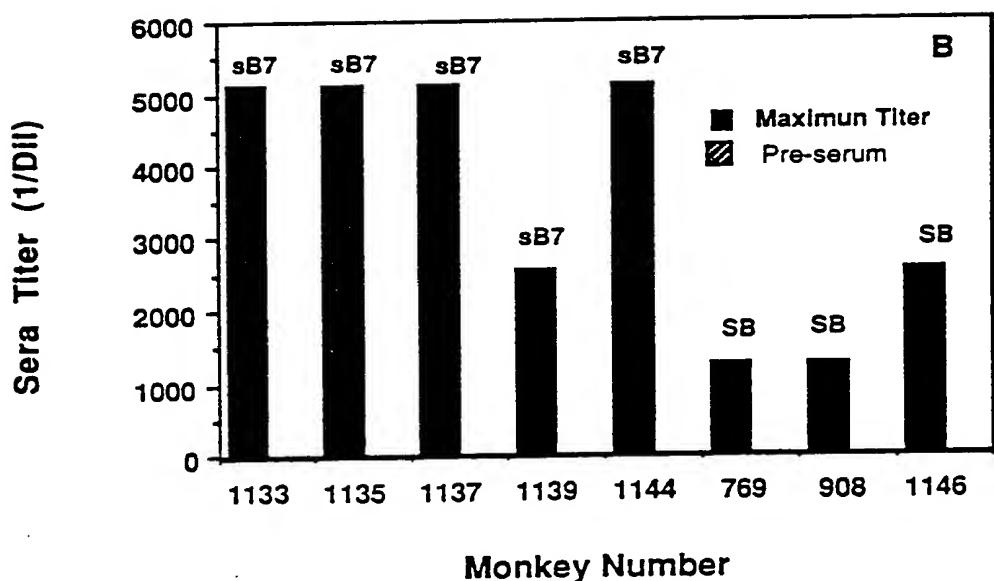
FIGURE 2

## NEOSPLA



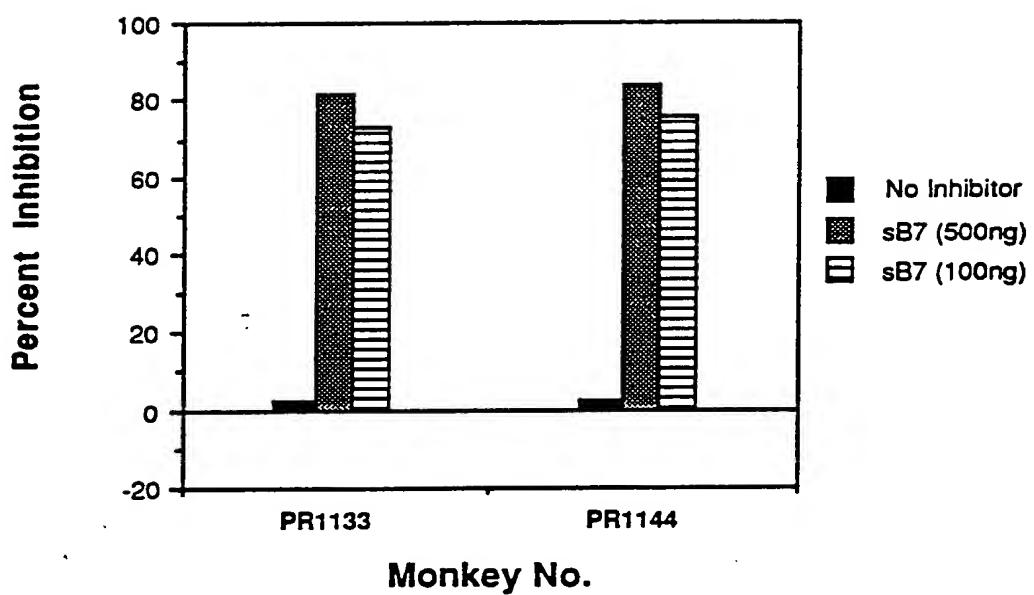
CMV = Cytomegalovirus promoter/enhancer  
 BETA = Mouse Beta globin major promoter  
 SVO = SV40 origin  
 BGH = Bovine growth hormone polyadenylation  
 SV = SV40 polyadenylation  
 N1 = Neomycin phosphotransferase exon 1  
 N2 = Neomycin phosphotransferase exon 2  
 LIGHT = Human immunoglobulin kappa or lambda constant region  
 DHFR = Dihydrofolate Reductase  
 HEAVY = Human immunoglobulin gamma 1 or gamma 4 PE constant region  
 L = Leader

FIGURE 3



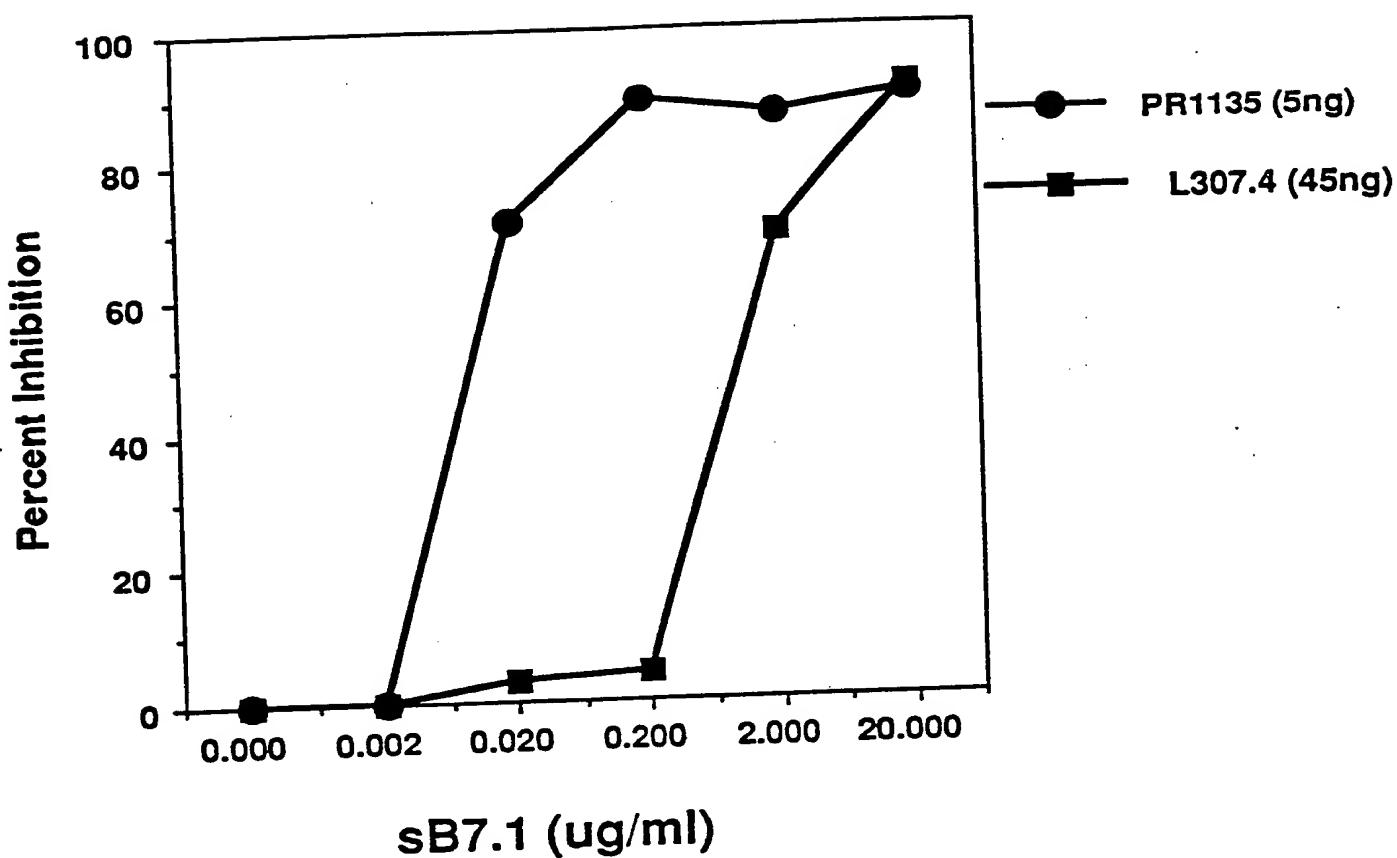
Monkey Serum Anti-B7.1 Titers Directed Against Cell Surface B7.1 on Transfected CHO Cells. Monkeys 1133-1139 were immunized with sB7.1. Monkeys 769-1146 were immunized with 50 million human B7 positive SB cells.

FIGURE 4



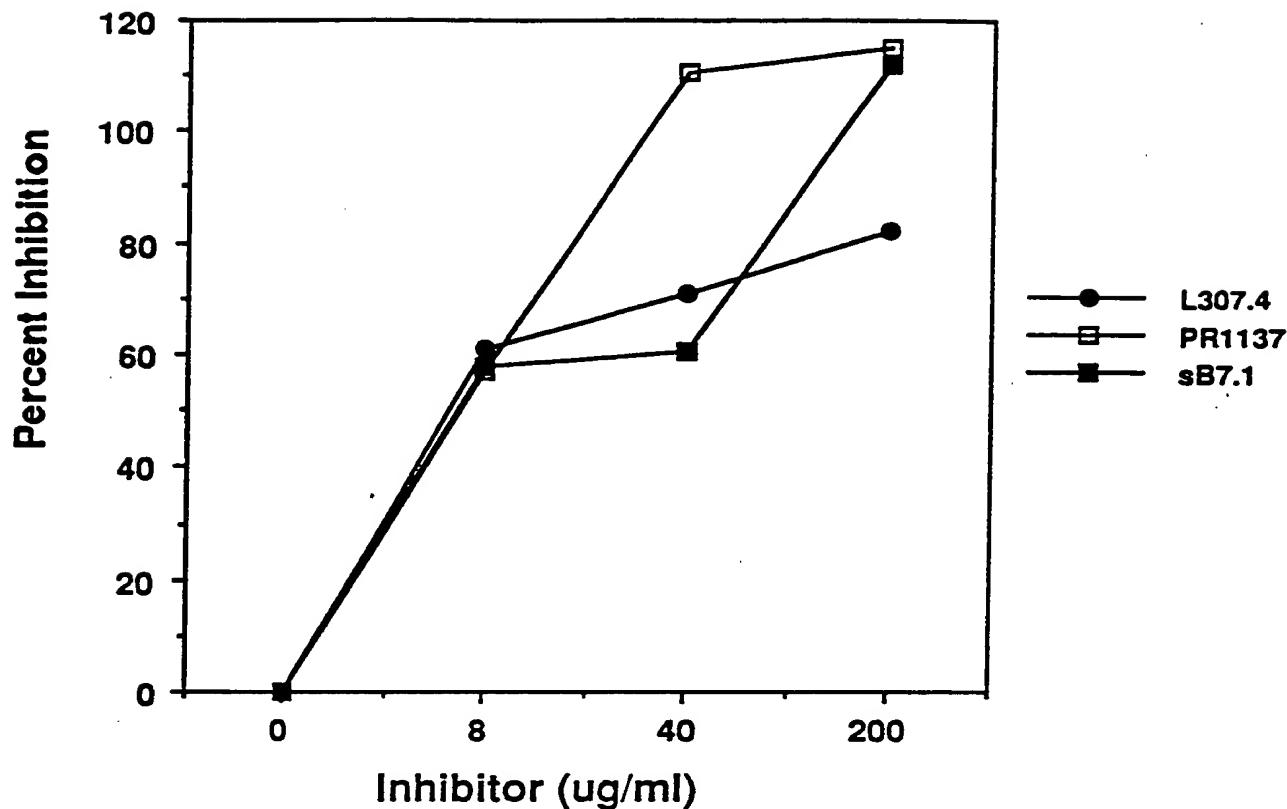
**Inhibition of Radiolabeled sB7.1 Binding by sB7.1 Affinity-purified Monkey Antibodies in Presence of Unlabeled sB7 and MAb L307.4 Murine Anti-B7.1**

FIGURE 5



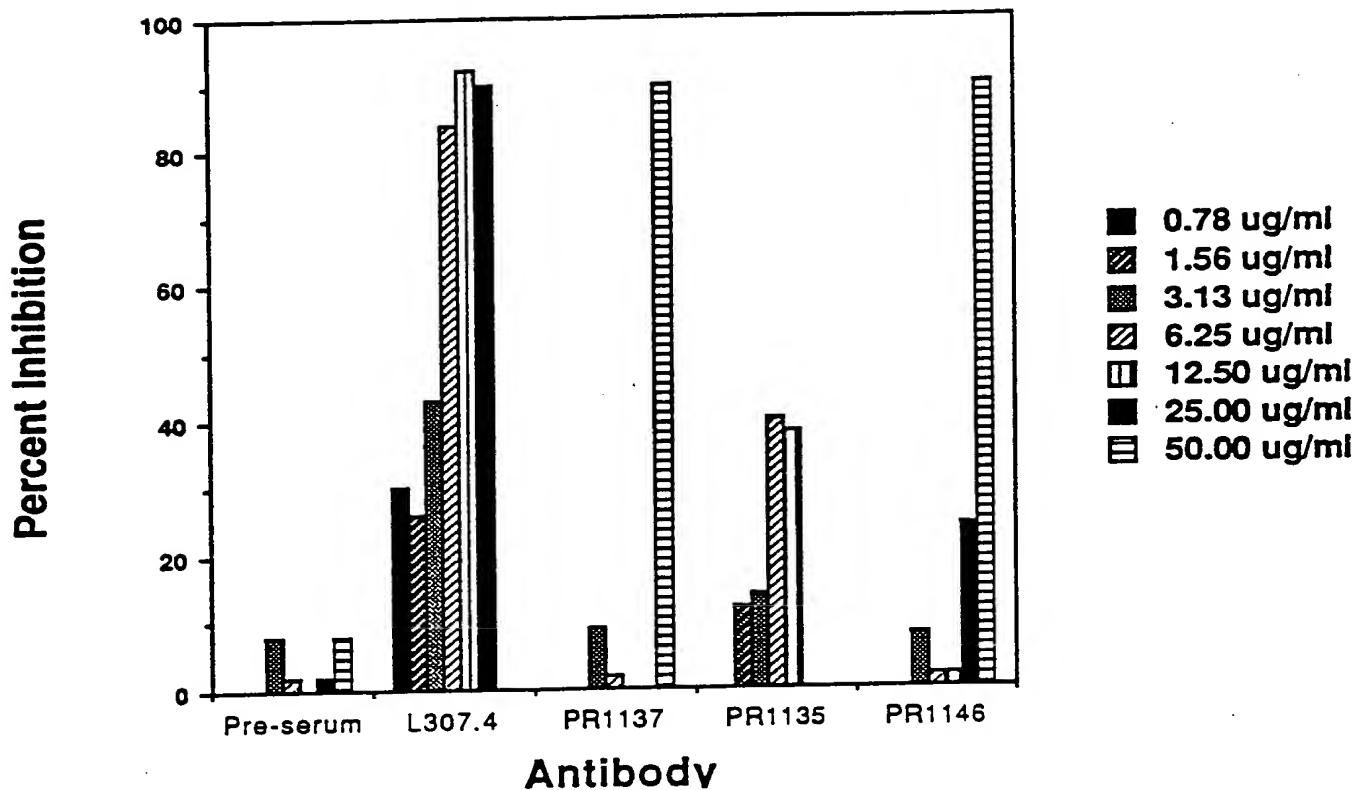
**Inhibition of Binding of Radiolabeled Monkey 1135 and L307.4 Anti-B7.1 Antibodies to B7 Positive Human SB Cells by Competition With Affinity-Purified sB7.1.**

FIGURE 6



**Inhibition of Radiolabeled B7-Ig Binding to Activated Human Peripheral Blood T Cells by Competing With Unlabeled sB7.1 Murine Anti-B7.1 (L307.4) and Monkey 1127 Affinity-purified Serum Antibodies.**

FIGURE 7



**Inhibition of IL-2 Production in Mixed Lymphocyte Cultures by Anti-B7.1 Affinity-purified Monkey Serum Antibodies. Assays at some concentrations for certain monkeys were not done, due to limiting amounts of purified antibody.**

FIGURE 8a

Length of 7C10 light/Primatized: 705 bp; Listed from: 1 to: 705;  
 Translated from: 1 to: 703 (Entire region);  
 Genetic Code used: Universal; Fri, May 26, 1995 11:11 AM

Frame 1 M R V P A Q L L G L L L L W L P G A R  
 ATG AGG GTC CCC GCT CAG CTC CTG GGG CTC CTG CTG CTC TGG CTC CCA GGT GCA CGA  
 9 18 27 36 45 54

C A Y E L T Q P P S V S V S P G Q T A R I  
 TGT GCC TAT GAA CTG ACT CAG CCA CCC TCG GTG TCA GTG TCC CCA GGA CAG ACG GCC AGG ATC  
 63 72 81 90 99 108 117

T C G G D N S R N E Y V H W Y Q Q K P A R  
 ACC TGT GGG CGA GAC AAC AGT AGA AAT GAA TAT GTC CAC TGG TAC CAG CAG AAG CCA GCG CGG  
 126 135 144 153 162 171 180

A P I L V I Y D D S D R P S G I P E R F S  
 GCC CCT ATA CTG GTG ATC TAT GAT GAT AGT GAC CGG CCC TCA GGG ATC CCT GAG CGA TTC TCT  
 189 198 207 216 225 234 243

G S K S G N T A T L T I N G V E A G D E A  
 GGC TCC AAA TCA GGG AAC ACC GCC ACC CTG ACC ATC AAC GGG GTC GAG GCC GGG GAT GAG GCT  
 252 261 270 279 288 297 306

D Y Y C Q V W D R A S D H P V F G G G T R  
 GAC TAT TAC TGT CAG GTG TGG GAC AGG GCT AGT GAT CAT CCG GTC TTC GGA GGA GGG ACC CGG  
 315 324 333 342 351 360 369

V T V L G Q P K A A P S V T L F P P S S E  
 GTG ACC GTC CTA GGT CAG CCC AAG GCT GCC CCC TCG GTC ACT CTG TTC CCG CCC TCC TCT GAG  
 378 387 396 405 414 423 432

E L Q A N K A T L V C L I S D F Y P G A V  
 GAG CTT CAA GCC AAC AAG GCC ACA CTG GTG TGT CTC ATA AGT GAC TTC TAC CCG GGA GCC GTG  
 441 450 459 468 477 486 495

T V A W K A D S S P V K A G V E T T T P S  
 ACA GTG GCC TGG AAG GCA GAT AGC AGC CCC GTC AAG GCG GGA GTG GAG ACC ACC ACA CCC TCC  
 504 513 522 531 540 549 558

K Q S N N K Y A A S S Y L S L T P E Q W K  
 AAA CAA AGC AAC AAC AAG TAC GCG GCC AGC AGC TAC CTG AGC CTG ACG CCT GAG CAG TGG AAG  
 567 576 585 594 603 612 621

S H R S Y S C Q V T H E G S T V E K T V A  
 TCC CAC AGA AGC TAC AGC TGC CAG GTC ACG CAT GAA GGG AGC ACC GTG GAG AAG ACA GTG GCC  
 630 639 648 657 666 675 684

P T E C S .  
 CCT ACA GAA TGT TCA TGA  
 693 702

FIGURE 8b

Length of 7C10 heavy/Primatized: 1431 bp; Listed from: 1 to: 1431;  
 Translated from: 1 to: 1429 (Entire region);  
 Genetic Code used: Universal; Fri, May 26, 1995 11:11 AM

Frame 1 M K H L W F F L L L V A A P R W V L S  
 ATG AAA CAC CTG TGG TTC TTC CTC CTC CTG GTG GCA GCT CCC AGA TGG GTC CTG TCC  
 9 18 27 36 45 54

Q V K L Q Q W G E G L L Q P S E T L S R T  
 CAG GTG AAG CTG CAG CAG TGG GGC GAA GGA CTT CTG CAG CCT TCG GAG ACC CTG TCC CGC ACC  
 63 72 81 90 99 108 117

C V V S G G S I S G Y Y Y W T W I R Q T P  
 TGC GTT GTC TCT GGT GGC TCC ATC AGC GGT TAC TAC TAC TGG ACC TGG ATC CGC CAG ACC CCA  
 126 135 144 153 162 171 180

G R G L E W I G H I Y G N G A T T N Y N P  
 GGG AGG GGA CTG GAG TGG ATT GGC CAT ATT TAT GGT AAT GGT GCG ACC ACC AAC TAC AAT CCC  
 189 198 207 216 225 234 243

S L K S R V T I S K D T S K N Q F F L N L  
 TCC CTC AAG AGT CGA GTC ACC ATT TCA AAA GAC ACG TCC AAG AAC CAG TTC TTC CTG AAC TTG  
 252 261 270 279 288 297 306

N S V T D A D T A V Y Y C A R G P R P D C  
 AAT TCT GTG ACC GAC GCG GAC ACG GCC GTC TAT TAC TGT GCG AGA GGC CCT CGC CCT GAT TGC  
 315 324 333 342 351 360 369

T T I C Y G G W V D V W G P G D L V T V S  
 ACA ACC ATT TGT TAT GGC GGC TGG GTC GAT GTC TGG GGC CCG GGA GAC CTG GTC ACC GTC TCC  
 378 387 396 405 414 423 432

S A S T K G P S V F P L A P S S K S T S G  
 TCA GCT AGC ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC TCC AAG AGC ACC TCT GGG  
 441 450 459 468 477 486 495

G T A A L G C L V K D Y F P E P V T V S W  
 GGC ACA GCG GCC CTG GGC TGC CTG GTC AAG GAC TAC TTC CCC GAA CCG GTG ACG GTG TCG TGG  
 504 513 522 531 540 549 558

N S G A L T S G V H T F P A V L Q S S G L  
 AAC TCA GGC GCC CTG ACC AGC GGC GTG CAC ACC TTC CCG GCT GTC CTA CAG TCC TCA GGA CTC  
 567 576 585 594 603 612 621

Y S L S S V V T V P S S S L G T Q T Y I C  
 TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC ACC CAG ACC TAC ATC TGC  
 630 639 648 657 666 675 684

N V N H K P S N T K V D K K A E P K S C D  
 AAC GTG AAT CAC AAG CCC AGC AAC ACC AAG GTG GAC AAG AAA GCA GAG CCC AAA TCT TGT GAC  
 693 702 711 720 729 738 747

K T H T C P P C P A P E L L G G P S V F L  
 AAA ACT CAC ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG TCA GTC TTC CTC  
 756 765 774 783 792 801 810

F P P K P K D T L M I S R T P E V T C V V  
 TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC ACA TGC GTG GTG  
 819 828 837 846 855 864 873

V D V S H E D P E V K F N W Y V D G V E V  
 GTG GAC GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG  
 882 891 900 909 918 927 936

FIGURE 8b (Continued)

H	N	A	K	T	K	P	R	E	E	Q	Y	N	S	T	Y	R	V	V	S	V
CAT	AAT	GCC	AAG	ACA	AAG	CCG	CGG	GAG	GAG	CAG	TAC	AAC	AGC	ACG	TAC	CGT	GTG	GTC	AGC	GTC
945	954				963			972		972		981			990			999		
L	T	V	L	H	Q	D	W	L	N	G	K	E	Y	K	C	K	V	S	N	K
CTC	ACC	GTC	CTG	CAC	CAG	GAC	TGG	CTG	AAT	GGC	AAG	GAG	TAC	AAG	TGC	AAG	GTC	TCC	AAC	AAA
1008	1017				1026			1035			1044			1053			1062			
A	L	P	A	P	I	E	K	T	I	S	K	A	K	G	Q	P	R	E	P	Q
GCC	CTC	CCA	GCC	CCC	ATC	GAG	AAA	ACC	ATC	TCC	AAA	GCC	AAA	GGG	CAG	CCC	CGA	GAA	CCA	CAG
1071	1080				1089			1098			1107			1116			1125			
V	Y	T	L	P	P	S	R	D	E	L	T	K	N	Q	V	S	L	T	C	L
GTG	TAC	ACC	CTG	CCC	CCA	TCC	CGG	GAT	GAG	CTG	ACC	AAG	AAC	CAG	GTC	AGC	CTG	ACC	TGC	CTG
1134	1143				1152			1161			1170			1179			1188			
V	K	G	F	Y	P	S	D	I	A	V	E	W	E	S	N	G	Q	P	E	N
GTC	AAA	GGC	TTC	TAT	CCC	AGC	GAC	ATC	GCC	GTG	GAG	TGG	GAG	AGC	AAT	GGG	CAG	CCG	GAG	AAC
1197	1206				1215			1224			1233			1242			1251			
N	Y	K	T	T	P	P	V	L	D	S	D	G	S	F	F	L	Y	S	K	L
AAC	TAC	AAG	ACC	ACG	CCT	CCC	GTG	CTG	GAC	TCC	GAC	GGC	TCC	TTC	TTC	CTC	TAC	AGC	AAG	CTC
1260	1269				1278			1287			1296			1305			1314			
T	V	D	K	S	R	W	Q	Q	G	N	V	F	S	C	S	V	M	H	E	A
ACC	GTG	GAC	AAG	AGC	AGG	TGG	CAG	CAG	GGG	AAC	GTC	TTC	TCA	TGC	TCC	GTG	ATG	CAT	GAG	GCT
1323	1332				1341			1350			1359			1368			1377			
L	H	N	H	Y	T	Q	K	S	L	S	L	S	P	G	K	.				
CTG	CAC	AAC	CAC	TAC	ACG	CAG	AAG	AGC	CTC	TCC	CTG	TCT	CCG	GGT	AAA	TGA				
1386	1395				1404			1413			1422			1431						

FIGURE 9a

Length of 7B6 light/Primatized: 720 bp; Listed from: 1 to: 720;  
 Translated from: 1 to: 718 (Entire region);  
 Genetic Code used: Universal; Fri, May 26, 1995 11:10 AM

Frame 1 M S L P A Q L L G L L L L C V P G S S  
 ATG AGC CTC CCT GCT CAG CTC CTC GGG CTG CTA TTG CTC TGC GTC CCC GGG TCC AGT  
 9 18 27 36 45 54

G E V V M T Q S P L S L P I T P G E P A S  
 GGG GAA GTT GTG ATG ACT CAG TCT CCA CTG TCC CTT CCC ATC ACA CCT GGA GAG CCG GCC TCC  
 63 72 81 90 99 108 117

I S C R S S Q S L K H S N G D T F L S W Y  
 ATC TCC TGT AGG TCT AGT CAA AGC CTT AAA CAC AGT AAT GGA GAC ACC TTC CTG AGT TGG TAT  
 126 135 144 153 162 171 180

Q Q K P G Q P P R L L I Y K V S N R D S G  
 CAG CAG AAG CCA GGC CAA CCT CCA AGG CTC CTG ATT TAT AAG GTT TCT AAC CGG GAC TCT GGG  
 189 198 207 216 225 234 243

V P D R F S G S G A G T D F T L K I S A V  
 GTC CCA GAC AGA TTC AGC GGC AGT GGG GCA GGG ACA GAT TTC ACA CTG AAA ATC AGC GCA GTG  
 252 261 270 279 288 297 306

E A E D V G V Y F C G Q G T R T P P T F G  
 GAG GCT GAA GAT GTT GGG GTT TAT TTC TGC GGG CAA GGT ACA AGG ACT CCT CCC ACT TTC GGC  
 315 324 333 342 351 360 369

G G T K V E I K R T V A A P S V F I F P P  
 GGA GGG ACC AAG GTG GAA ATC AAA CGT ACG GTG GCT GCA CCA TCT GTC TTC ATC TTC CCG CCA  
 378 387 396 405 414 423 432

S D E Q L K S G T A S V V C L L N N F Y P  
 TCT GAT GAG CAG TTG AAA TCT GGA ACT GCC TCT GTT GTG TGC CTG CTG AAT AAC TTC TAT CCC  
 441 450 459 468 477 486 495

R E A K V Q W K V D N A L Q S G N S Q E S  
 AGA GAG GCC AAA GTA CAG TGG AAG GTG GAT AAC GCC CTC CAA TCG GGT AAC TCC CAG GAG AGT  
 504 513 522 531 540 549 558

V T E Q D S K D S T Y S L S S T L T L S K  
 GTC ACA GAG CAG GAC AGC AAG GAC AGC ACC TAC AGC CTC AGC AGC ACC CTG ACG CTG AGC AAA  
 567 576 585 594 603 612 621

A D Y E K H K V Y A C E V T H Q G L S S P  
 GCA GAC TAC GAG AAA CAC AAA GTC TAC GCC TGC GAA GTC ACC CAT CAG GGC CTG AGC TCG CCC  
 630 639 648 657 666 675 684

V T K S F N R G E C  
 GTC ACA AAG AGC TTC AAC AGG GGA GAG TGT TGA  
 693 702 711 720

FIGURE 9b

Length of 7B6 heavy/Primatized: 1437 bp; Listed from: 1 to: 1437;  
 Translated from: 1 to: 1435 (Entire region);  
 Genetic Code used: Universal; Fri, May 26, 1995 11:09 AM

Frame 1	M	G	W	S	L	I	L	L	F	L	V	A	V	A	T	R	V	Q	C	
	ATG	GGT	TGG	AGC	CTC	ATC	TTG	CTC	TTC	CTT	GTC	GCT	GTT	GCT	ACG	CGT	GTC	CAG	TGT	
	9								27						45			54		
E	V	Q	L	V	E	S	G	G	L	V	Q	P	G	G	S	L	R	V	S	
GAG	GTG	CAA	CTG	GTG	GAG	TCT	GGG	GGA	GGC	TTG	GTC	CAG	CCT	GGC	GGG	TCC	CTG	AGA	GTC	TCC
63		72			81					90		99				108			117	
C	A	V	S	G	F	T	F	S	D	H	Y	M	Y	W	F	R	Q	A	P	G
TGT	GCA	GTC	TCT	GGA	TTC	ACC	TTC	AGT	GAC	CAC	TAC	ATG	TAT	TGG	TTC	CGC	CAG	GCT	CCA	GGG
126		135			144				153				162			171			180	
K	G	P	E	W	V	G	F	I	R	N	K	P	N	G	G	T	T	E	Y	A
AAG	GGG	CCG	GAA	TGG	GTA	GGT	TTC	ATT	AGA	AAC	AAA	CCG	AAC	GGT	GGG	ACA	ACA	GAA	TAC	GCC
189		198			207				216				225			234			243	
A	S	V	K	D	R	F	T	I	S	R	D	D	S	K	S	I	A	Y	L	Q
GCG	TCT	GTG	AAA	GAC	AGA	TTC	ACC	ATC	TCC	AGA	GAT	GAT	TCC	AAA	AGC	ATC	GCC	TAT	CTG	CAA
252		261			270				279				288			297			306	
M	S	S	L	K	I	E	D	T	A	V	Y	Y	C	T	T	S	Y	I	S	H
ATG	AGC	AGC	CTG	AAA	ATC	GAG	GAC	ACG	GCC	GTC	TAT	TAC	TGT	ACT	ACA	TCC	TAC	ATT	TCA	CAT
315		324			333				342				351			360			369	
C	R	G	G	V	C	Y	G	G	Y	F	E	F	W	G	Q	G	A	L	V	T
TGT	CGG	GGT	GGT	GTC	TGC	TAT	GGG	GGT	TAC	TTC	GAA	TTC	TGG	GGC	CAG	GGC	GCC	CTG	GTC	ACC
378		387			396				405				414			423			432	
V	S	S	A	S	T	K	G	P	S	V	F	P	L	A	P	S	S	K	S	T
GTC	TCC	TCA	GCT	AGC	ACC	AAG	GGC	CCA	TCG	GTC	TTC	CCC	CTG	GCA	CCC	TCC	TCC	AAG	AGC	ACC
441		450			459				468				477			486			495	
S	G	G	T	A	A	L	G	C	L	V	K	D	Y	F	P	E	P	V	T	V
TCT	GGG	GGC	ACA	GCG	GCC	CTG	GGC	TGC	CTG	GTC	AAG	GAC	TAC	TTC	CCC	GAA	CCG	GTG	ACG	GTG
504		513			522				531				540			549			558	
S	W	N	S	G	A	L	T	S	G	V	H	T	F	P	A	V	L	Q	S	S
TCG	TGG	AAC	TCA	GGC	GCC	CTG	ACC	AGC	GGC	GTG	CAC	ACC	TTC	CCG	GCT	GTC	CTA	CAG	TCC	TCA
567		576			585				594				603			612			621	
G	L	Y	S	L	S	S	V	V	T	V	P	S	S	S	L	G	T	Q	T	Y
GGA	CTC	TAC	TCC	CTC	AGC	AGC	GTG	GTG	ACC	GTG	CCC	TCC	AGC	AGC	TTG	GGC	ACC	CAG	ACC	TAC
630		639			648				657				666			675			684	
I	C	N	V	N	H	K	P	S	N	T	K	V	D	K	K	A	E	P	K	S
ATC	TGC	AAC	GTG	AAT	CAC	AAG	CCC	AGC	AAC	ACC	AAG	GTG	GAC	AAG	AAA	GCA	GAG	CCC	AAA	TCT
693		702			711				720				729			738			747	
C	D	K	T	H	T	C	P	P	C	P	A	P	E	L	L	G	G	P	S	V
TGT	GAC	AAA	ACT	CAC	ACA	TGC	CCA	CCG	TGC	CCA	GCA	CCT	GAA	CTC	CTG	GGG	GGA	CCG	TCA	GTC
756		765			774				783				792			801			810	
F	L	F	P	P	K	P	K	D	T	L	M	I	S	R	T	P	E	V	T	C
TTC	CTC	TTC	CCC	CCA	AAA	CCC	AAG	GAC	ACC	CTC	ATG	ATC	TCC	CGG	ACC	CCT	GAG	GTC	ACA	TGC
819		828			837				846				855			864			873	
V	V	V	D	V	S	H	E	D	P	E	V	K	F	N	W	Y	V	D	G	V
GTG	GTG	GTG	GAC	GTG	AGC	CAC	GAA	GAC	CCT	GAG	GTC	AAG	TTC	AAC	TGG	TAC	GTG	GAC	GGC	GTG
882		891			900				909				918			927			936	

FIGURE 9b (Continued)

E	V	H	N	A	K	T	K	P	R	E	E	Q	Y	N	S	T	Y	R	V	V
GAG	GTG	CAT	AAT	GCC	AAG	ACA	AAG	CCG	CGG	GAG	GAG	CAG	TAC	AAC	AGC	ACG	TAC	CGT	GTG	GTC
945		954			963			972			981				990				999	
S	V	L	T	V	L	H	Q	D	W	L	N	G	K	E	Y	K	C	K	V	S
AGC	GTC	CTC	ACC	GTC	CTG	CAC	CAG	GAC	TGG	CTG	AAT	GGC	AAG	GAG	TAC	AAG	TGC	AAG	GTC	TCC
1008		1017			1026			1035			1044				1053			1062		
N	K	A	L	P	A	P	I	E	K	T	I	S	K	A	K	G	Q	P	R	E
AAC	AAA	GCC	CTC	CCA	GCC	CCC	ATC	GAG	AAA	ACC	ATC	TCC	AAA	GCC	AAA	GGG	CAG	CCC	CGA	GAA
1071		1080			1089			1098			1107				1116			1125		
P	Q	V	Y	T	L	P	P	S	R	D	E	L	T	K	N	Q	V	S	L	T
CCA	CAG	GTG	TAC	ACC	CTG	CCC	CCA	TCC	CGG	GAT	GAG	CTG	ACC	AAG	AAC	CAG	GTC	AGC	CTG	ACC
1134		1143			1152			1161			1170				1179			1188		
C	L	V	K	G	F	Y	P	S	D	I	A	V	E	W	E	S	N	G	Q	P
TGC	CTG	GTC	AAA	GGC	TTC	TAT	CCC	AGC	GAC	ATC	GCC	GTG	GAG	TGG	GAG	AGC	AAT	GGG	CAG	CCG
1197		1206			1215			1224			1233				1242			1251		
E	N	N	Y	K	T	T	P	P	V	L	D	S	D	G	S	F	F	L	Y	S
GAG	AAC	AAC	TAC	AAG	ACC	ACG	CCT	CCC	GTG	CTG	GAC	TCC	GAC	GGC	TCC	TTC	TTC	CTC	TAC	AGC
1260		1269			1278			1287			1296				1305			1314		
K	L	T	V	D	K	S	R	W	Q	Q	G	N	V	F	S	C	S	V	M	H
AAG	CTC	ACC	GTG	GAC	AAG	AGC	AGG	TGG	CAG	CAG	GGG	AAC	GTC	TTC	TCA	TGC	TCC	GTG	ATG	CAT
1323		1332			1341			1350			1359				1368			1377		
E	A	L	H	N	H	Y	T	Q	K	S	L	S	L	S	P	G	K			
GAG	GCT	CTG	CAC	AAC	CAC	TAC	ACG	CAG	AAG	AGC	CTC	TCC	CTG	TCT	CCG	GGT	AAA	TGA		
1386		1395			1404			1413			1422				1431					

FIGURE 10a

Length of 16C10 Lambda/Primatized : 711 bp;  
 Listed from: 1 to: 711;  
 Translated from: 1 to: 709 (Entire region);  
 Genetic Code used: Universal; Fri, May 26, 1995 11:08 AM

Frame 1 M R V P A Q L L G L L L L W L P G A R  
 ATG AGG GTC CCC GCT CAG CTC CTG GGG CTC CTG CTG CTC TGG CTC CCA GGT GCA CGA  
 9 18 27 36 45 54

C E S V L T Q P P S V S G A P G Q K V T I  
 TGT GAG TCT GTC CTG ACA CAG CCG CCC TCA GTG TCT GGG GCC CCA GGG CAG AAG GTC ACC ATC  
 63 72 81 90 99 108 117

S C T G S T S N I G G Y D L H W Y Q Q L P  
 TCG TGC ACT GGG AGC ACC TCC AAC ATT GGA GGT TAT GAT CTA CAT TGG TAC CAG CAG CTC CCA  
 126 135 144 153 162 171 180

G T A P K L L I Y D I N K R P S G I S D R  
 GGA ACG GCC CCC AAA CTC CTC ATC TAT GAC ATT AAC AAG CGA CCC TCA GGA ATT TCT GAC CGA  
 189 198 207 216 225 234 243

F S G S K S G T A A S L A I T G L Q T E D  
 TTC TCT GGC TCC AAG TCT GGT ACC GCG GCC TCC CTG GCC ATC ACT GGG CTC CAG ACT GAG GAT  
 252 261 270 279 288 297 306

E A D Y Y C Q S Y D S S L N A Q V F G G G  
 GAG GCT GAT TAT TAC TGC CAG TCC TAT GAC AGC AGC CTG AAT GCT CAG GTA TTC GGA GGA GGG  
 315 324 333 342 351 360 369

T R L T V L G Q P K A A P S V T L F P P S  
 ACC CGG CTG ACC GTC CTA GGT CAG CCC AAG GCT GCC CCC TCG GTC ACT CTG TTC CCG CCC TCC  
 378 387 396 405 414 423 432

S E E L Q A N K A T L V C L I S D F Y P G  
 TCT GAG GAG CTT CAA GCC AAC AAG GCC ACA CTG GTG TGT CTC ATA AGT GAC TTC TAC CCG GGA  
 441 450 459 468 477 486 495

A V T V A W K A D S S P V K A G V E T T T  
 GCC GTG ACA GTG GCC TGG AAG GCA GAT AGC AGC CCC GTC AAG GCG GGA GTG GAG ACC ACC ACA  
 504 513 522 531 540 549 558

P S K Q S N N K Y A A S S Y L S L T P E Q  
 CCC TCC AAA CAA AGC AAC AAG TAC GCG GCC AGC AGC TAC CTG AGC CTG ACG CCT GAG CAG  
 567 576 585 594 603 612 621

W K S H R S Y S C Q V T H E G S T V E K T  
 TGG AAG TCC CAC AGA AGC TAC AGC TGC CAG GTC ACG CAT GAA GGG AGC ACC GTG GAG AAG ACA  
 630 639 648 657 666 675 684

V A P T E C S . . .  
 GTG GCC CCT ACA GAA TGT TCA TGA  
 693 702 711

FIGURE 10b

Length of 16C10 heavy/primatized: 1431 bp;

Listed from: 1 to: 1431;

Translated from: 1 to: 1429 (Entire region);

Genetic Code used: Universal; Fri, May 26, 1995 11:08 AM

Frame 1 M K H L W F F L L L V A A P R W V L S  
 ATG AAA CAC CTG TGG TTC TTC CTC CTC CTG GTG GCA GCT CCC AGA TGG GTC CTG TCC  
 9 18 27 36 45 54

Q V Q L Q E S G P G L V K P S E T L S L T  
 CAG GTG CAG CTG CAG GAG TCG GGC CCA GGA CTG GTG AAG CCT TCG GAG ACC CTG TCC CTC ACC  
 63 72 81 90 99 108 117

C A V S G G S I S G G Y G W G W I R Q P P  
 TGC GCT GTC TCT GGT GGC TCC ATC AGC GGT TAT GGC TGG GGC TGG ATC CGC CAG CCC CCA  
 126 135 144 153 162 171 180

G K G L E W I G S F Y S S S G N T Y Y N P  
 GGG AAG GGG CTG GAG TGG ATT GGG AGT TTC TAT AGT AGT AGT GGG AAC ACC TAC TAC AAC CCC  
 189 198 207 216 225 234 243

S L K S Q V T I S T D T S K N Q F S L K L  
 TCC CTC AAG AGT CAA GTC ACC ATT TCA ACA GAC ACG TCC AAG AAC CAG TTC TCC CTG AAG CTG  
 252 261 270 279 288 297 306

N S M T A A D T A V Y Y C V R D R L F S V  
 AAC TCT ATG ACC GCC GCG GAC ACG GCC GTG TAT TAC TGT GTG AGA GAT CGT CTT TTT TCA GTT  
 315 324 333 342 351 360 369

V G M V Y N N W F D V W G P G V L V T V S  
 GTT GGA ATG GTT TAC AAC AAC TGG TTC GAT GTC TGG GGC CCG GGA GTC CTG GTC ACC GTC TCC  
 378 387 396 405 414 423 432

S A S T K G P S V F P L A P S S K S T S G  
 TCA GCT AGC ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC TCC AAG AGC ACC TCT GGG  
 441 450 459 468 477 486 495

G T A A L G C L V K D Y F P E P V T V S W  
 GGC ACA GCG GCC CTG GGC TGC CTG GTC AAG GAC TAC TTC CCC GAA CCG GTG ACG GTG TCG TGG  
 504 513 522 531 540 549 558

N S G A L T S G V H T F P A V L Q S S G L  
 AAC TCA GGC GCC CTG ACC AGC GGC GTG CAC ACC TTC CCG GCT GTC CTA CAG TCC TCA GGA CTC  
 567 576 585 594 603 612 621

Y S L S S V V T V P S S S L G T Q T Y I C  
 TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC ACC CAG ACC TAC ATC TGC  
 630 639 648 657 666 675 684

N V N H K P S N T K V D K K A E P K S C D  
 AAC GTG AAT CAC AAG CCC AGC AAC ACC AAG GTG GAC AAG AAA GCA GAG CCC AAA TCT TGT GAC  
 693 702 711 720 729 738 747

K T H T C P P C P A P E L L G G P S V F L  
 AAA ACT CAC ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC GTC CTG GGG GGA CCG TCA GTC TTC CTC  
 756 765 774 783 792 801 810

F P P K P K D T L M I S R T P E V T C V V  
 TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC ACA TGC GTG GTG  
 819 828 837 846 855 864 873

V D V S H E D P E V K F N W Y V D G V E V  
 GTG GAC GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG

FIGURE 10b (Continued)

882	891	900	909	918	927	936
H N A K T K P R E E Q Y N S T Y R V V S V						
CAT AAT GCC AAG ACA AAG CCG CGG GAG GAG CAG TAC AAC AGC ACG TAC CGT GTG GTC AGC GTC						
945 954 963 972 981 990 999						
L T V L H Q D W L N G K E Y K C K V S N K						
CTC ACC GTC CTG CAC CAG GAC TGG CTG AAT GGC AAG GAG TAC AAG TGC AAG GTC TCC AAC AAA						
1008 1017 1026 1035 1044 1053 1062						
A L P A P I E K T I S K A K G Q P R E P Q						
GCC CTC CCA GCC CCC ATC GAG AAA ACC ATC TCC AAA GCC AAA GGG CAG CCC CGA GAA CCA CAG						
1071 1080 1089 1098 1107 1116 1125						
V Y T L P P S R D E L T K N Q V S L T C L						
GTC TAC ACC CTG CCC CCA TCC CGG GAT GAG CTG ACC AAG AAC CAG GTC AGC CTG ACC TGC CTG						
1134 1143 1152 1161 1170 1179 1188						
V K G F Y P S D I A V E W E S N G Q P E N						
GTC AAA GGC TTC TAT CCC AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG CAG CCG GAG AAC						
1197 1206 1215 1224 1233 1242 1251						
N Y K T T P P V L D S D G S F F L Y S K L						
AAC TAC AAG ACC ACG CCT CCC GTG CTG GAC TCC GAC GGC TCC TTC CTC TAC AGC AAG CTC						
1260 1269 1278 1287 1296 1305 1314						
T V D K S R W Q Q G N V F S C S V M H E A						
ACC GTG GAC AAG AGC AGG TGG CAG CAG GGG AAC GTC TTC TCA TGC TCC GTG ATG CAT GAG GCT						
1323 1332 1341 1350 1359 1368 1377						
L H N H Y T Q K S L S L S P G K						
CTG CAC AAC CAC TAC ACG CAG AAG AGC CTC TCC CTG TCT CCG GGT AAA TGA						
1386 1395 1404 1413 1422 1431						